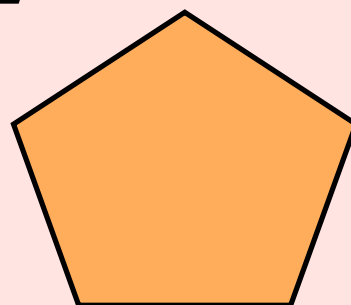
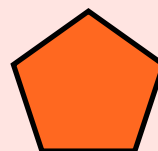
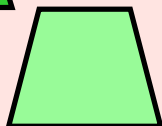
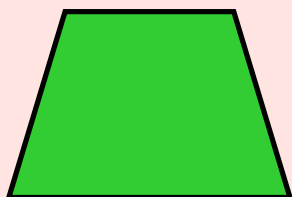


# Similar Figures Day One



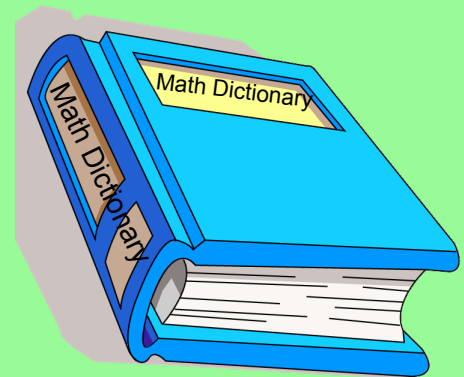
$$2 + 7 \cdot \sqrt{30}$$

$$2 + 7 \cdot 5.477 \dots$$

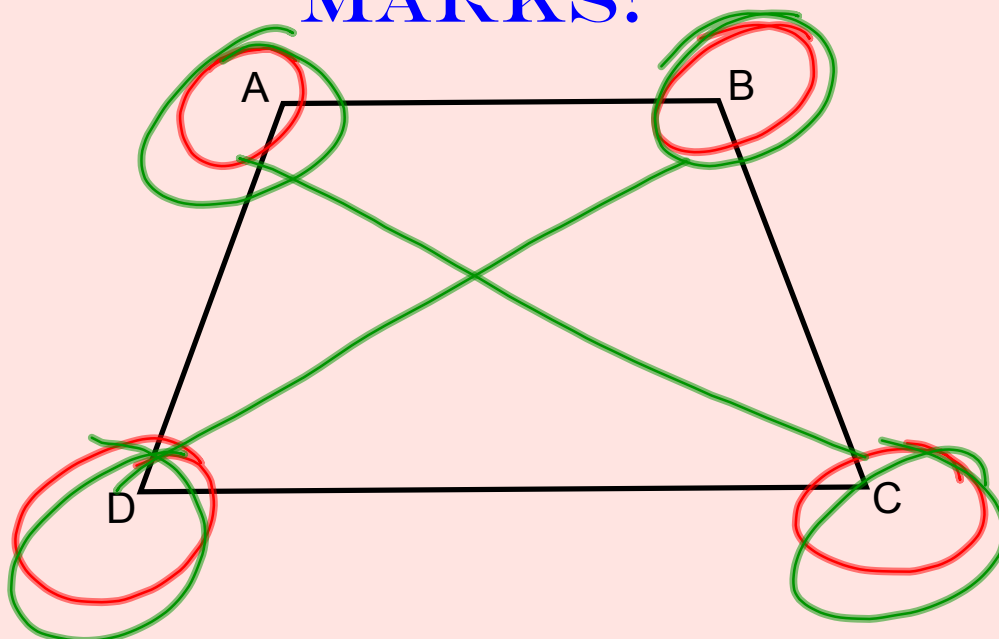
$$40.34$$

## *Add to your Math Dictionary . . .*

similar - figures that are the same shape but not equal size.



## ARC MARKS!



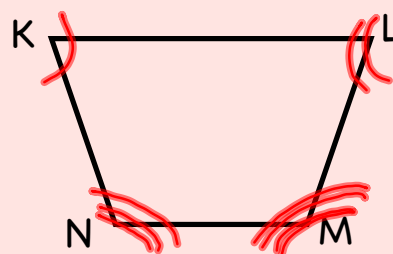
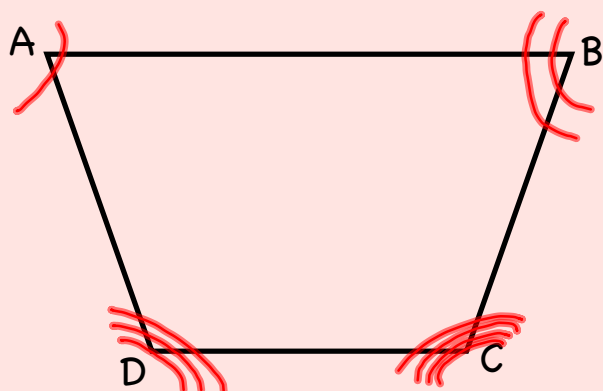
The name of this figure is trapezoid ABCD.

BCDA

DABC

CADB

ARC  
MARKS!

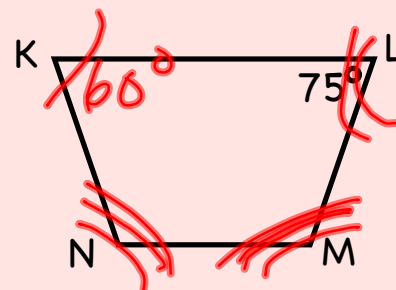
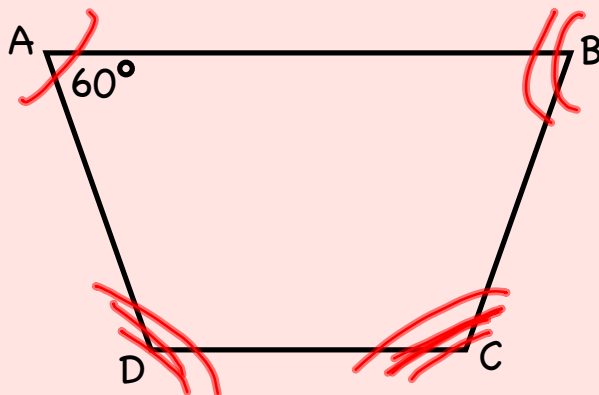


If two figures are similar, the \_\_\_\_\_

\_\_\_\_\_ have the same measure.



# ARC MARKS!



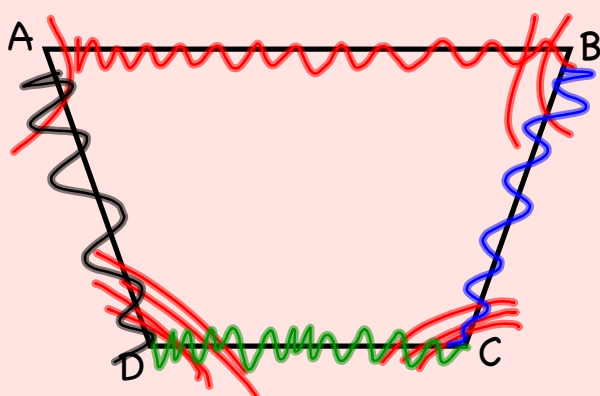
$$m\angle A = m\angle K \quad m\angle D = m\angle \underline{N}$$

$$\text{If } m\angle A = 60^\circ, \text{ then } m\angle K = \underline{60^\circ}$$

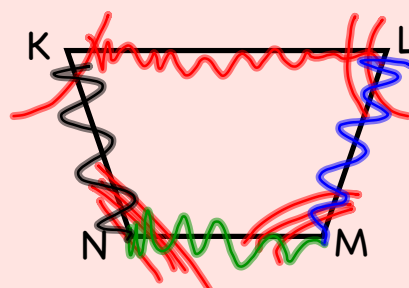
$$\text{If } m\angle L = 75^\circ, \text{ then } m\angle B = \underline{75^\circ}$$

# ARC MARKS!

If two figures are similar, \_\_\_\_\_  
have lengths that are in proportion to each other.

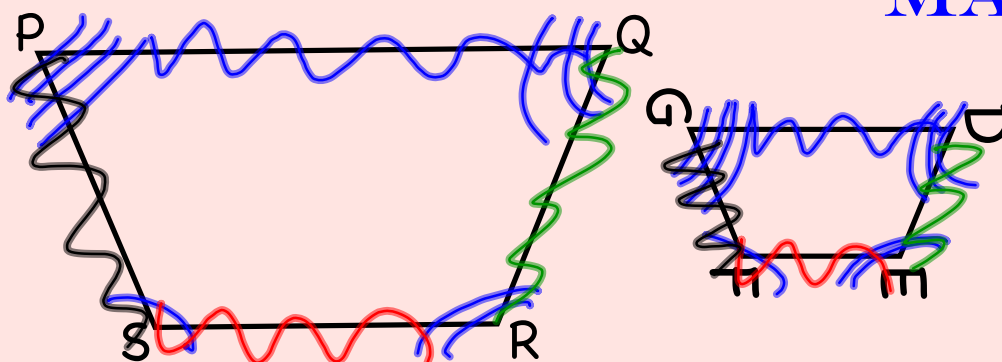


$$\frac{AB}{KL} = \frac{DC}{NM}$$



$$\frac{BC}{LM} = \frac{AD}{KN}$$

ARC  
MARKS!




$$\frac{PQ}{GD} = \frac{QR}{DE}$$

$$\frac{SR}{FE} = \frac{PS}{GF}$$

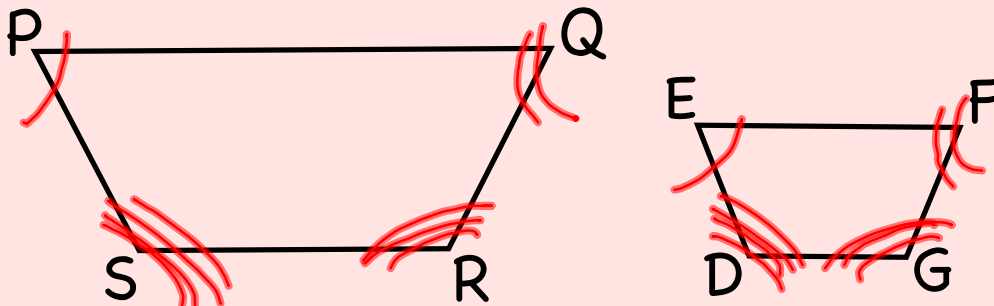


## Naming similar figures

**ARC  
MARKS!**

The symbol  means "is similar to".

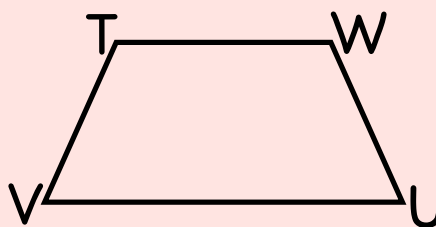
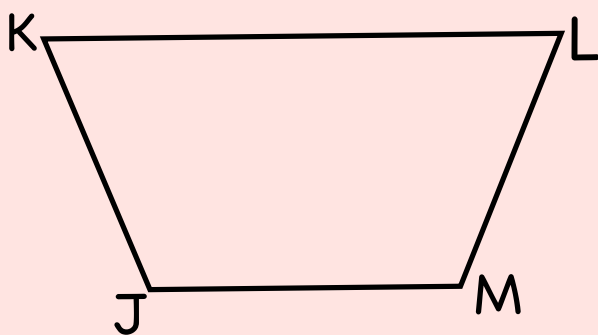
\*When you name similar figures, be sure to



Mathematical  
Statement  $PQRS \sim \underline{EFGD}$

## ARC MARKS!

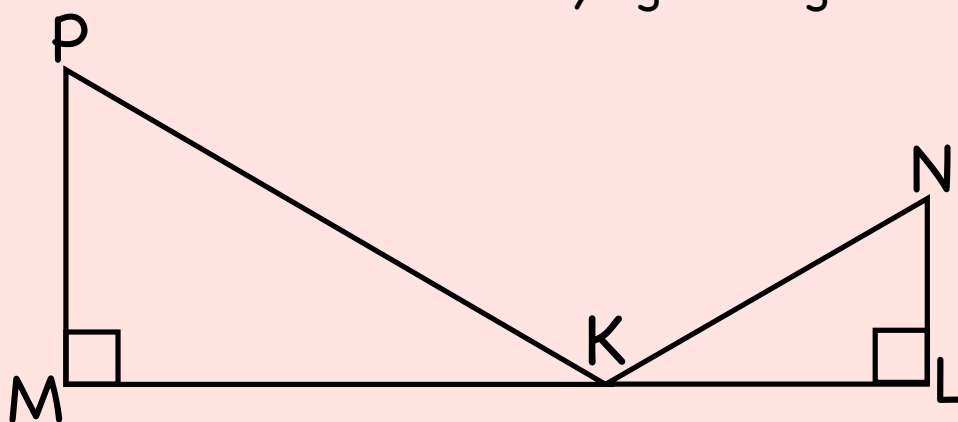
Write a mathematical statement saying the figures are similar.



---

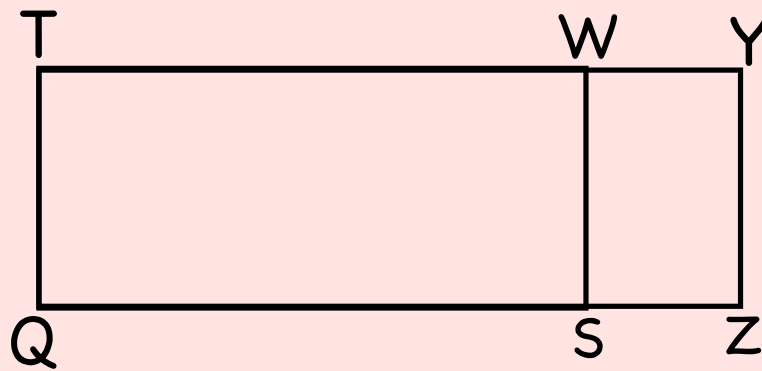
**ARC  
MARKS!**

Write a mathematical statement  
saying the figures are similar.



**ARC  
MARKS!**

Write a mathematical statement  
saying the figures are similar.



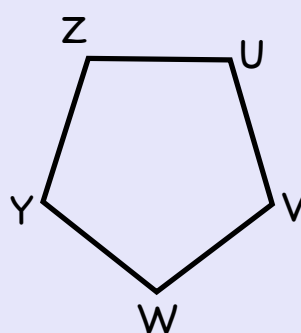
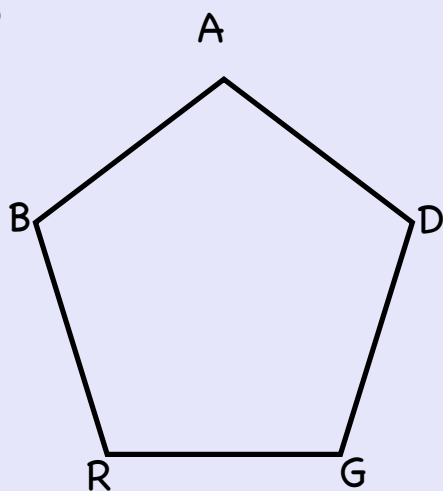
planner Time!

planner Time!

planner Time!

planner Time!

Warm Up



$$m\angle A = m\_\_\_\_\_\_?$$

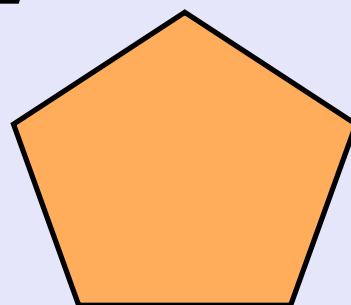
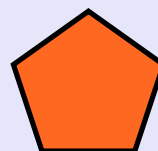
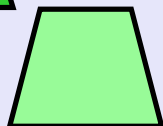
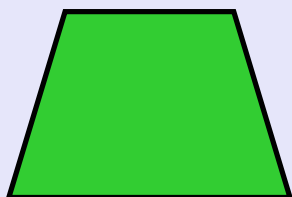
$$m\angle R = m\_\_\_\_\_\_?$$

$$\frac{BA}{?} = \frac{?}{ZU}$$

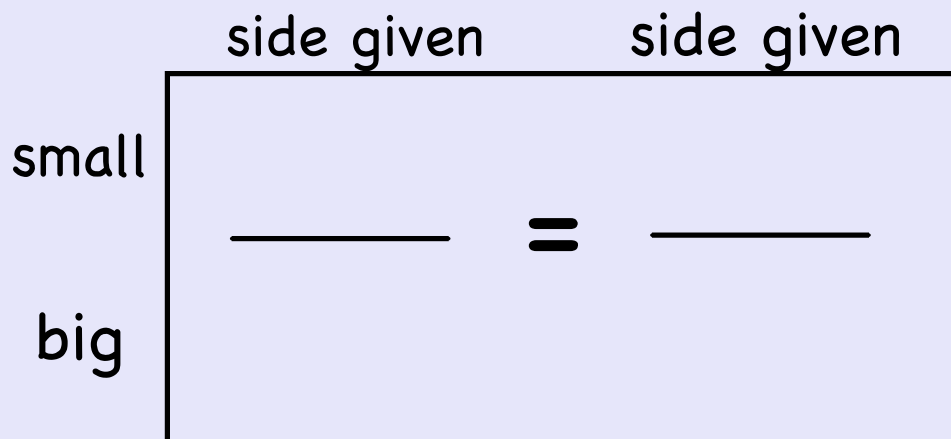
Write a mathematical statement showing these figures are similar.

---

# Similar Figures Day Two



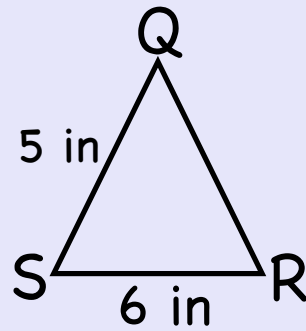
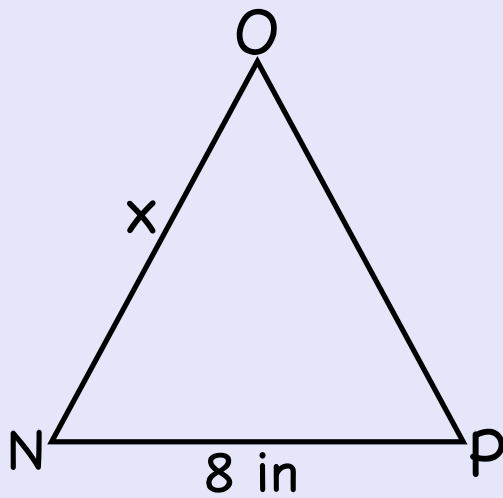
**Today we will find missing  
measurements in similar figures.**





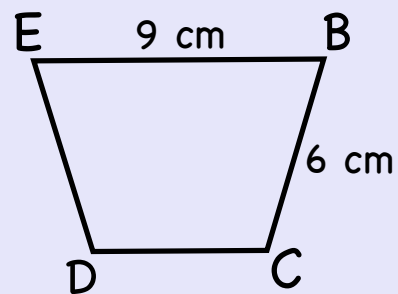
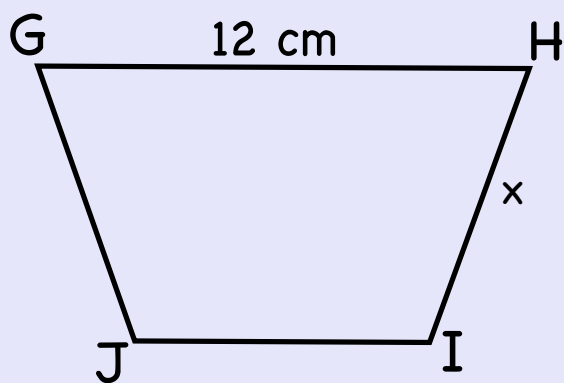
Find the missing side length.

**ARC  
MARKS!**



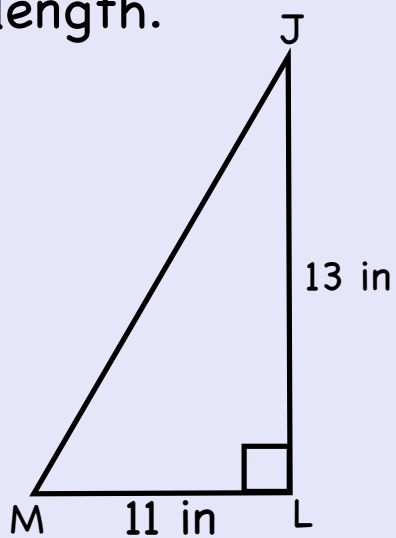
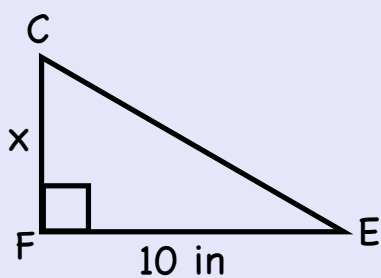
Find the missing side length.

**ARC  
MARKS!**



Find the missing side length.

**ARC  
MARKS!**



*Planner Time!*